Claims

1. A method of sealing a leaking part or cavity comprising injecting into said leaking part or cavity a grouting composition obtained by mixing an alkali metal silicate or an organic silicate, colloidal silica particles, and at least one gelling agent, wherein the composition has a weight ratio of silica to silicate from about 2:1 to about 100:1.

2. A method for preparing a composition for injection grouting comprising mixing colloidal silica particles, an alkali metal silicate or an organic silicate, and at least one a gelling agent, wherein the composition has a weight ratio of silica to silicate from about 2:1 to about 100:1.

3. A composition for injection grouting comprising colloidal silica particles, an alkali metal silicate or an organic silicate, and at least one gelling agent, wherein the weight ratio of silica to silicate is from about 2:1 to about 100:1.

4. A method according to claim 1, wherein the colloidal silica particles are present in a silica sol having an S-value from about 30 to about 90.

5. A composition according to claim 3, wherein the colloidal silica particles are present in a silica sol having an S-value from about 30 to about 90.

6. A method according to claim 1, wherein the composition further comprises a hydraulic binder.

7. A composition according to claim 3, wherein the composition further comprises a hydraulic binder.

8. A method according to claim 1, wherein the weight ratio of silica to silicate is from about 3:1 to about 70:1.

9. A composition according to claim 3, wherein the weight ratio of silica to silicate is from about 3:1 to about 70:1.

10. A method according to claim 1, wherein the weight ratio of silica to silicate is from about 6:1 to about 20:1.

11. A composition according to claim 3, wherein the weight ratio of silica to silicate is from about 6:1 to about 20:1.

12. A method according to claim 1, wherein the silica particles have a relative standard deviation of the particle size distribution lower than about 15 % by numbers.

13. A composition according to claim 3, wherein the silica particles have a relative standard deviation of the particle size distribution lower than about 15 % by numbers.

14. A method according to claim 1, wherein the gelling agent is an alkali metal salt.

15. A composition according to claim 3, wherein the gelling agent is an alkali metal salt.

16. A method according to claim 2, wherein the composition further comprises a hydraulic binder.

17. A method according to claim 2, wherein the weight ratio of silica to silicate is from about 3:1 to about 70:1.

18. A composition according to claim 2, wherein the weight ratio of silica to silicate is from about 6:1 to about 20:1.

19. A method according to claim 2, wherein the silica particles are present in a silica sol having an S-value from about 30 to about 90.

20. A method according to claim 2, wherein the silica particles have an average particle diameter ranging from about 7 to about 50 nm.